

DERWENT-ACC-NO: 1992-163698  
DERWENT-WEEK: 200027  
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TITLE: Aerosol for cooling skin relieving pain - comprises  
compounded soln. of  
blend of polyoxyethylene sorbitan fatty acid ester, with  
other active  
ingredient

PATENT-ASSIGNEE: TAISHO PHARM CO LTD[TAIS]

PRIORITY-DATA: 1990JP-0219738 (August 21, 1990)

PATENT-FAMILY:

| PUB-NO        | PUB-DATE      | LANGUAGE |
|---------------|---------------|----------|
| JP 3038837 B2 | May 8, 2000   | N/A      |
| 005           | A61K 009/12   |          |
| JP 04103526 A | April 6, 1992 | N/A      |
| 004           | N/A           |          |

APPLICATION-DATA:

| PUB-NO          | APPL-DESCRIPTOR | APPL-NO        |
|-----------------|-----------------|----------------|
| JP 3038837B2    | N/A             | 1990JP-0219738 |
| August 21, 1990 |                 |                |
| JP 3038837B2    | Previous Publ.  | JP 4103526     |
| N/A             |                 |                |
| JP 04103526A    | N/A             | 1990JP-0219738 |
| August 21, 1990 |                 |                |

INT-CL (IPC): A61K009/12; A61K047/10 ; A61K047/14 ;  
A61K047/32

ABSTRACTED-PUB-NO: JP 04103526A

BASIC-ABSTRACT: Aerosol comprises a soln. compounding (A)  
and (B) in a solvent  
(water and/or lower alcohol) and an aerosol propellant of  
liquefied gas. (A) =  
a blend of polyoxyethylene (POE) sorbitan fatty acid ester  
and/or sorbitan  
fatty acid ester, which is pasty or semisolid at room  
temp.. (B) = active  
ingredient.

(A) is POE sorbitan mono-stearate opt. in mixt. of POE (20) sorbitan mono-stearate, POE (20) sorbitan tri-stearate and sorbitan mono-stearate and is compounded at 0.1-8 wt.%, pref. 0.5-4 wt.%. Solvent is pref. water/lower alcohol = 30/70-70/30 and compounded at 10-60 wt.%, pref. 20-40 wt.%. (B) is compounded at 0.001-5 wt.%. Liquefied gas (e.g. dimethyl ether, n-butane, iso-butane, propane) is compounded at 40-80 wt.%, pref. 50-70 wt.%.

USE/ADVANTAGE - Aerosol relieves pain derived from blow, sprain or muscular fatigue or the pruritus derived from tinea pedis or insect bite. When this is applied on the skin, this produces sherbet-like, foamy gel to cool the skin strongly for a long period. (0/0)

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

AEROSOL COOLING SKIN RELIEVE PAIN COMPRISE COMPOUND  
SOLUTION BLEND  
POLYOXYETHYLENE SORBITAN FATTY ACID ESTER ACTIVE INGREDIENT

DERWENT-CLASS: A96 B07

CPI-CODES: A05-H03; A12-V01; B04-C03C; B06-D01; B07-A02;  
B10-H01; B10-J02;  
B12-A07; B12-D01; B12-D07; B12-M01A;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*

Fragmentation Code

F012 F013 F014 F113 H4 H401 H403 H481 H483 H5  
H589 H721 H722 H723 H8 J0 J011 J013 J2 J271  
J273 K0 L8 L818 L821 L831 M225 M226 M231 M232  
M262 M281 M283 M312 M323 M332 M342 M343 M373 M383  
M391 M393 M423 M431 M510 M521 M530 M540 M782 M903  
M904 Q615 Q616 R011 V743

Markush Compounds

199220-11001-M

Chemical Indexing M1 \*13\*

Fragmentation Code

M423 M431 M782 M903 P411 P943 V400 V406 V780

Chemical Indexing M2 \*02\*

Fragmentation Code

F012 F013 F014 F113 H4 H403 H422 H481 H721 H8  
J0 J011 J2 J271 K0 L8 L818 L821 L831 M225  
M226 M231 M232 M262 M281 M312 M321 M332 M343 M373  
M391 M413 M431 M510 M521 M530 M540 M782 M903 M904  
Q615 Q616 R011

Markush Compounds

199220-11002-M

Chemical Indexing M2 \*03\*

Fragmentation Code

D014 D022 D601 G013 G100 H2 H211 H5 H541 H6  
H602 H641 H8 J0 J012 J1 J171 J3 J331 M210  
M211 M240 M272 M281 M311 M321 M342 M372 M391 M412  
M431 M511 M520 M531 M540 M782 M903 M904 M910 P411  
P943 R011

Specific Compounds

00076M

Chemical Indexing M2 \*04\*

Fragmentation Code

G013 G100 J0 J011 J1 J171 M210 M214 M232 M240  
M281 M312 M321 M331 M340 M342 M372 M391 M414 M431  
M510 M520 M531 M540 M782 M903 M904 M910 P411 P420  
P943 R011

Specific Compounds

01987M

Chemical Indexing M2 \*05\*

Fragmentation Code

G011 G100 H4 H401 H441 H8 J0 J011 J2 J231  
M210 M211 M272 M281 M320 M414 M431 M510 M520 M531  
M540 M782 M903 M904 M910 P411 P420 P943 R011

Specific Compounds

00991M

Chemical Indexing M2 \*06\*

Fragmentation Code

F011 F521 G015 G019 G100 H1 H181 H2 H201 H5  
H581 H6 H602 H609 H643 H8 M280 M311 M312 M321  
M332 M342 M343 M373 M392 M413 M431 M510 M521 M532  
M540 M640 M782 M903 M904 M910 P241 P411 P943 R011

Specific Compounds

11213M

Chemical Indexing M2 \*07\*

Fragmentation Code

G010 G019 G100 H1 H103 H181 H5 H581 H8 M1  
M121 M132 M150 M210 M211 M273 M282 M311 M312 M321  
M332 M342 M343 M373 M383 M391 M414 M431 M510 M520  
M532 M540 M782 M903 M904 M910 P411 P432 P943 R011

Specific Compounds

00170M

Chemical Indexing M2 \*08\*

Fragmentation Code

G014 G100 H1 H103 H181 J0 J011 J3 J341 M210  
M211 M212 M240 M273 M282 M311 M321 M342 M349 M381  
M391 M414 M431 M510 M520 M531 M540 M782 M903 M904  
M910 P411 P412 P943 R011

Specific Compounds

01117M

Chemical Indexing M2 \*09\*

Fragmentation Code

A119 A940 C053 C108 C300 C730 C801 C803 C804 C805  
C807 M411 M431 M782 M903 M904 M910 P220 P411 P943  
R011

Specific Compounds

01751M

Chemical Indexing M2 \*10\*

Fragmentation Code

G010 G100 H1 H181 K0 L7 L722 M210 M211 M220  
M222 M223 M224 M225 M231 M232 M233 M273 M283 M311  
M321 M342 M373 M391 M414 M431 M510 M520 M531 M540  
M640 M782 M903 M904 M910 P220 P241 P411 P943 R011

Specific Compounds

03054M

Chemical Indexing M2 \*11\*

Fragmentation Code

G036 G563 H4 H401 H461 H8 M210 M211 M213 M232  
M240 M282 M320 M415 M431 M510 M520 M530 M541 M782  
M903 M904 M910 P411 P943 R011

Specific Compounds

04328M

Chemical Indexing M2 \*12\*

Fragmentation Code

G031 G034 G038 G060 G623 J5 J561 M210 M211 M240  
M283 M320 M415 M431 M510 M520 M530 M541 M782 M903  
M904 M910 P411 P943 R011

Specific Compounds  
00401M

Chemical Indexing M2 \*14\*

Fragmentation Code

G011 G100 H4 H402 H441 H481 H8 J0 J011 J2  
J231 M280 M312 M321 M332 M342 M383 M391 M414 M431  
M510 M520 M531 M540 M782 M903 M904 P411 P420 P943  
R011

Specific Compounds  
04287M

Chemical Indexing M2 \*15\*

Fragmentation Code

G012 G021 G111 G221 K0 L4 L450 M1 M122 M137  
M210 M211 M240 M273 M281 M320 M414 M431 M510 M520  
M532 M540 M782 M903 M904 P241 P411 P943 R011

Specific Compounds  
04584M

Chemical Indexing M6 \*16\*

Fragmentation Code

M903 P220 P241 P411 P412 P420 P432 P942 R011 R111  
R150 R210

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0076U; 0170U ; 0401U ;  
0557U ; 0991U ; 1117U  
; 1539U ; 1751U ; 1832U ; 1871U ; 1987U ; 2025U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0013 0231 1279 1588 2002 2014 2766

Multipunch Codes: 014 028 04- 147 198 231 240 31- 336 525  
645 688 720 023 127

158 200 201 276

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1992-075280